

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P401648

Luminaire Tested: **ENT-SA1E-735-U-SL2**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1E-735-U-SL2
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6527 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

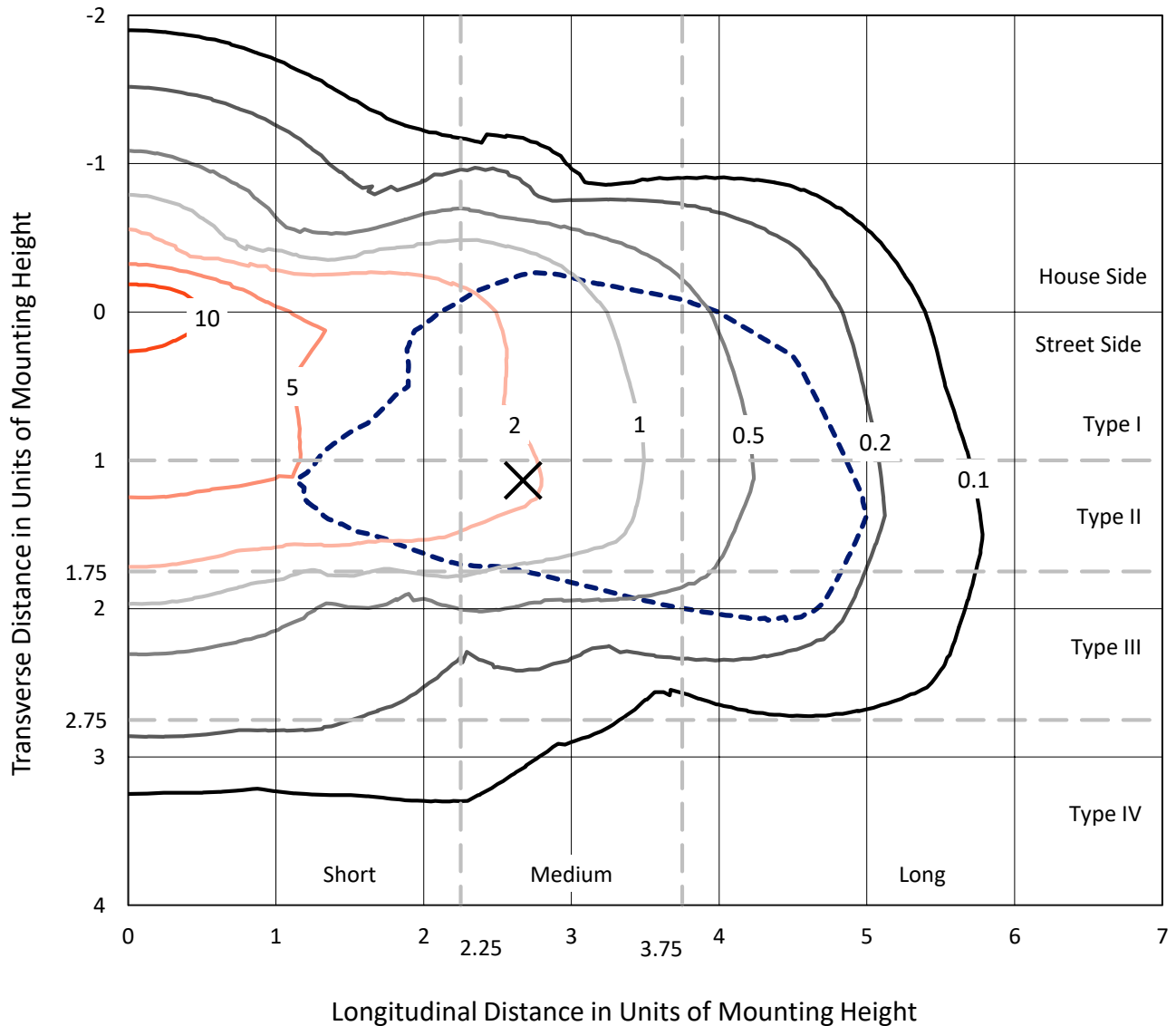
Input Watts (W): 57.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

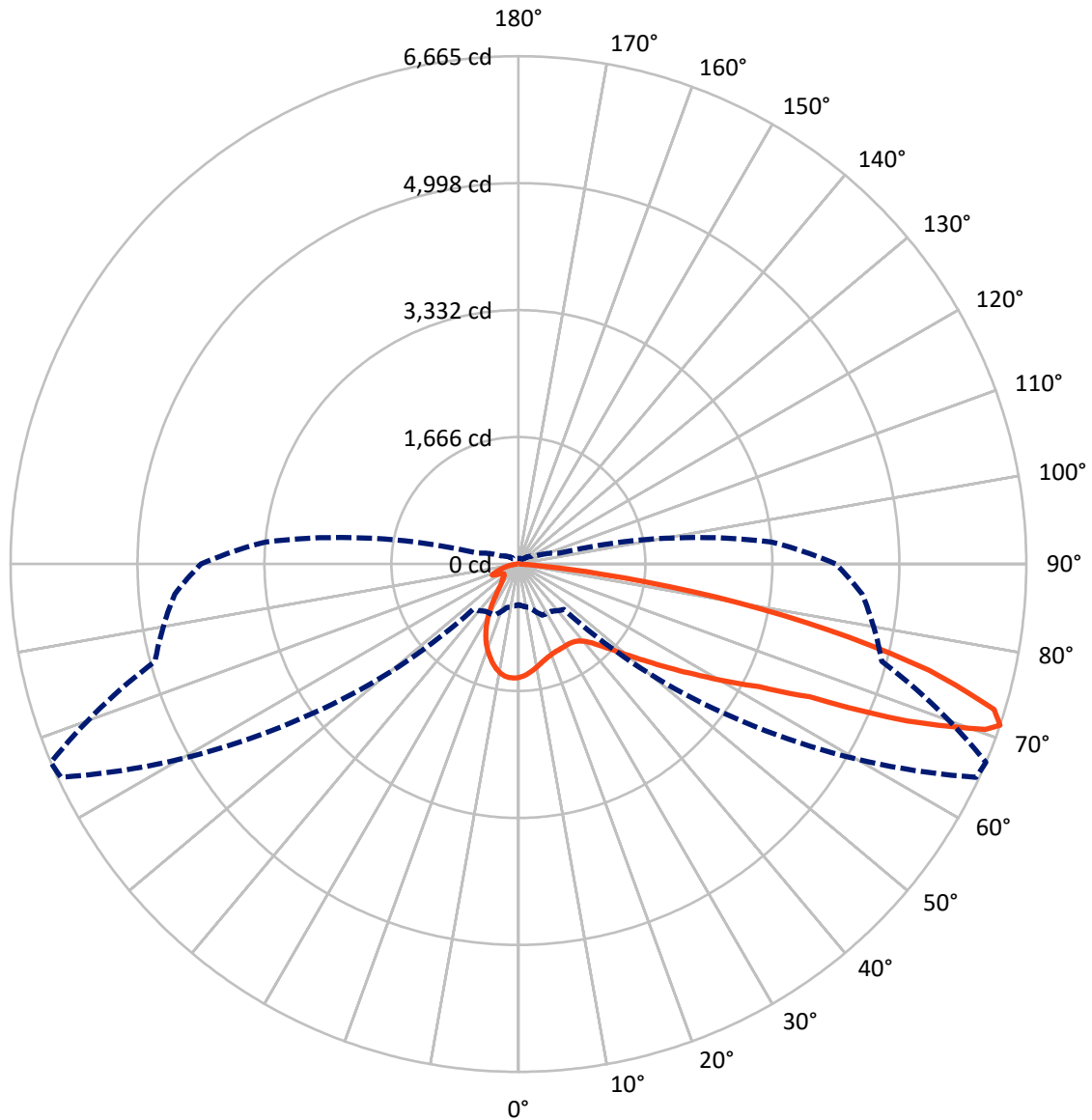
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1337.2	0.0	1337.2
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	5189.8	0.0	5189.8
	% Fixture	79.5	0.0	79.5
Total	Lumens	6527.0	0.0	6527.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	2.0
10°-20°	324.1	5.0
20°-30°	437.6	6.7
30°-40°	576.3	8.8
40°-50°	820.9	12.6
50°-60°	1254.1	19.2
60°-70°	1565.8	24.0
70°-80°	1264.0	19.4
80°-90°	152.4	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6527.0	100.0
0°-180°	6527.0	100.0



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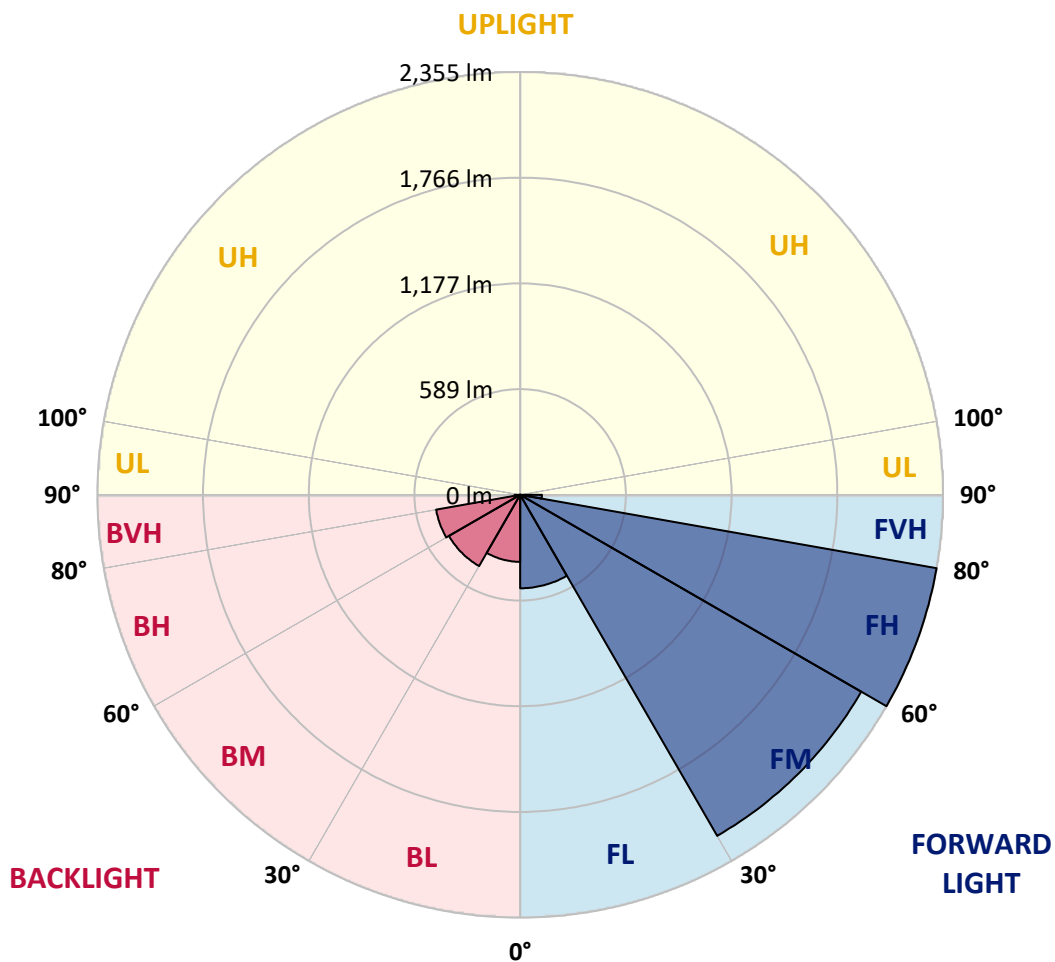
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	520.5	8.0			
FM	(30°-60°)	2193.2	33.6			
FH	(60°-80°)	2354.6	36.1			G2/5000
FVH	(80°-90°)	121.5	1.9			G2/225
BL	(0°-30°)	373.1	5.7	B1/500		
BM	(30°-60°)	458.1	7.0	B1/1000		
BH	(60°-80°)	475.2	7.3	B1/500		G1/500
BVH	(80°-90°)	30.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1488.3	1488.3	1488.3	1488.3	1488.3	1488.3	1488.3	1488.3	1488.3	1488.3	1488.3
2.5°	1403.8	1410.3	1411.3	1424.4	1429.1	1444.2	1452.6	1466.7	1468.6	1477.1	1482.7
5°	1312.6	1313.6	1319.2	1330.5	1348.3	1375.6	1396.2	1431.0	1437.6	1462.0	1483.6
7.5°	1230.9	1235.6	1245.0	1261.9	1282.6	1314.5	1346.4	1394.4	1403.8	1443.2	1484.6
10°	1175.4	1180.1	1187.7	1206.4	1227.1	1262.8	1301.3	1356.8	1367.1	1421.6	1481.8
12.5°	1131.3	1136.0	1141.6	1162.3	1184.8	1220.5	1260.0	1322.0	1332.4	1395.3	1475.2
15°	1102.2	1103.1	1110.6	1127.5	1152.9	1187.7	1227.1	1291.0	1303.2	1374.6	1473.3
17.5°	1084.3	1086.2	1092.8	1105.9	1128.5	1162.3	1200.8	1265.6	1279.7	1357.7	1474.2
20°	1085.2	1087.1	1090.9	1095.6	1111.5	1140.7	1181.1	1246.9	1260.9	1347.4	1480.8
22.5°	1105.0	1105.9	1106.9	1100.3	1105.9	1126.6	1166.0	1233.7	1248.7	1342.7	1488.3
25°	1142.6	1142.6	1140.7	1125.6	1113.4	1121.9	1157.6	1229.0	1244.0	1338.9	1495.8
27.5°	1194.2	1198.0	1188.6	1170.7	1142.6	1128.5	1155.7	1225.2	1240.3	1338.9	1499.6
30°	1264.7	1266.6	1262.8	1239.3	1193.3	1154.8	1161.3	1222.4	1237.5	1337.1	1500.5
32.5°	1336.1	1341.8	1346.4	1325.8	1270.3	1201.8	1183.9	1226.2	1239.3	1336.1	1497.7
35°	1408.5	1412.2	1434.8	1431.0	1370.9	1272.2	1220.5	1241.2	1252.5	1340.8	1499.6
37.5°	1470.5	1478.9	1511.8	1537.2	1490.2	1368.1	1283.5	1274.1	1280.7	1364.3	1509.9
40°	1537.2	1549.4	1598.3	1646.2	1625.5	1488.3	1372.8	1333.3	1331.4	1407.5	1535.3
42.5°	1612.4	1626.5	1689.4	1758.9	1765.5	1641.5	1492.1	1416.9	1415.0	1481.8	1590.7
45°	1700.7	1713.8	1799.3	1882.0	1922.4	1812.5	1638.7	1535.3	1536.2	1585.1	1679.1
47.5°	1809.7	1830.3	1913.0	2018.3	2090.6	2005.1	1816.3	1700.7	1693.2	1741.1	1823.8
50°	1962.8	1979.7	2048.3	2150.7	2277.6	2238.1	2039.9	1899.9	1894.2	1916.8	2017.3
52.5°	2123.5	2129.1	2162.0	2268.2	2481.5	2521.0	2315.2	2147.0	2125.4	2137.6	2257.9
55°	2132.9	2145.1	2166.7	2301.1	2664.7	2860.1	2618.7	2438.3	2410.1	2401.6	2531.3
57.5°	1937.5	1957.2	1985.4	2159.2	2672.2	3252.0	3049.9	2778.4	2727.7	2685.4	2823.5
60°	1523.1	1548.5	1600.1	1813.4	2481.5	3475.6	3769.7	3159.9	3114.8	2971.0	3109.1
62.5°	1101.2	1111.5	1161.3	1257.2	1969.4	3488.7	4519.5	3657.9	3546.1	3249.1	3355.3
65°	887.0	903.9	918.9	918.0	1166.0	3094.1	5017.5	4543.9	4206.6	3560.2	3625.9
67.5°	731.0	736.6	773.3	837.2	793.0	1911.1	5067.3	5838.7	5496.7	3979.2	3947.3
70°	610.7	612.6	649.3	763.9	759.2	986.6	4248.9	6583.8	6501.1	4667.0	4450.0
71°	534.6	550.6	591.0	739.5	755.4	842.8	3609.9	6623.3	6664.6	4936.7	4527.9
72.5°	420.9	420.9	478.3	678.4	762.0	778.0	2660.0	6408.1	6527.4	5243.0	4392.6
75°	247.1	245.2	276.2	472.6	778.9	775.2	1452.6	5325.7	5567.1	5298.4	4065.7
77.5°	139.1	141.9	158.8	263.1	618.3	744.2	834.4	3877.7	4162.4	4432.1	3438.0
80°	63.9	67.7	79.9	127.8	364.6	642.7	595.7	2518.1	2626.2	2663.8	1624.6
82.5°	16.9	18.8	24.4	48.9	140.9	437.9	440.7	1054.2	1089.0	629.5	348.6
85°	0.0	0.0	0.0	0.0	1.9	53.6	125.0	189.8	157.9	83.6	71.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.9	2.8	3.8	3.8	3.8	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1488.3	1488.3	1488.3	1488.3	1488.3	1488.3	1488.3	1488.3	1488.3	1488.3	1488.3
2.5°	1487.4	1491.1	1497.7	1496.8	1494.9	1483.6	1490.2	1483.6	1482.7	1479.9	1480.8
5°	1491.1	1496.8	1500.5	1492.1	1478.0	1453.6	1445.1	1423.5	1409.4	1401.9	1398.1
7.5°	1496.8	1500.5	1498.7	1475.2	1438.5	1392.5	1353.0	1322.0	1289.1	1283.5	1281.6
10°	1496.8	1500.5	1485.5	1440.4	1377.5	1305.1	1245.0	1194.2	1143.5	1124.7	1127.5
12.5°	1493.0	1494.9	1460.1	1387.8	1296.7	1198.0	1113.4	1029.8	965.0	925.5	918.0
15°	1490.2	1487.4	1426.3	1322.0	1200.8	1078.7	950.9	838.1	761.1	709.4	702.8
17.5°	1490.2	1479.9	1385.9	1246.9	1096.5	928.3	759.2	637.0	551.5	521.5	520.5
20°	1492.1	1469.5	1342.7	1168.9	966.9	749.8	566.6	462.3	430.3	425.6	426.6
22.5°	1494.0	1455.4	1295.7	1080.5	822.2	559.1	405.0	367.4	370.2	381.5	380.5
25°	1492.1	1436.7	1240.3	981.9	664.3	403.1	327.0	317.6	334.5	347.7	351.4
27.5°	1487.4	1412.2	1181.1	864.4	506.4	317.6	285.6	284.7	301.6	313.8	312.9
30°	1473.3	1383.1	1112.5	740.4	365.5	270.6	257.5	260.3	271.5	282.8	282.8
32.5°	1458.3	1350.2	1040.1	605.1	280.9	245.2	240.5	241.5	249.0	257.5	256.5
35°	1442.3	1318.3	965.9	464.2	246.2	230.2	228.3	227.4	230.2	232.1	232.1
37.5°	1432.9	1290.1	884.2	349.5	227.4	220.8	217.0	213.3	212.3	210.5	208.6
40°	1436.7	1271.3	805.2	270.6	216.1	210.5	204.8	199.2	195.4	193.6	192.6
42.5°	1463.0	1265.6	717.9	233.0	205.8	201.1	193.6	184.2	180.4	180.4	179.5
45°	1524.0	1282.6	636.1	214.2	196.4	190.7	178.5	171.9	169.1	170.1	170.1
47.5°	1619.9	1330.5	562.8	204.8	189.8	181.3	167.2	160.7	158.8	159.7	159.7
50°	1763.6	1420.7	487.7	196.4	182.3	171.0	158.8	151.3	148.5	148.5	148.5
52.5°	1974.1	1569.1	433.2	190.7	175.7	162.6	150.3	141.9	138.1	138.1	137.2
55°	2230.6	1762.7	412.5	187.0	167.2	155.0	141.9	133.4	127.8	125.9	126.8
57.5°	2511.6	2013.6	442.6	186.0	157.9	146.6	133.4	123.1	117.5	116.5	115.6
60°	2801.0	2262.6	529.0	181.3	150.3	136.2	124.0	114.6	109.0	107.1	106.2
62.5°	3050.9	2510.6	671.8	177.6	144.7	126.8	113.7	105.2	100.5	97.7	97.7
65°	3352.5	2795.3	889.8	182.3	141.9	117.5	104.3	96.8	93.0	90.2	90.2
67.5°	3764.0	3217.2	1055.2	204.8	148.5	109.9	94.0	88.3	85.5	83.6	83.6
70°	4169.0	3454.0	733.8	240.5	165.4	103.4	84.6	80.8	78.9	77.0	77.0
71°	4163.4	3327.1	551.5	249.0	171.0	101.5	80.8	78.0	76.1	75.2	74.2
72.5°	3954.8	3024.6	395.6	241.5	168.2	95.8	76.1	73.3	71.4	71.4	70.5
75°	3547.0	2665.7	309.1	202.0	140.9	85.5	67.7	65.8	63.9	63.0	63.9
77.5°	2906.2	2132.9	243.4	159.7	107.1	70.5	60.1	57.3	56.4	55.4	56.4
80°	1335.2	929.3	177.6	124.0	79.9	56.4	50.7	49.8	48.9	47.9	47.9
82.5°	321.3	260.3	94.9	82.7	54.5	43.2	40.4	40.4	40.4	39.5	39.5
85°	70.5	70.5	38.5	38.5	32.9	30.1	31.9	31.9	31.9	30.1	30.1
87.5°	3.8	11.3	12.2	17.9	18.8	17.9	21.6	22.6	21.6	20.7	19.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)